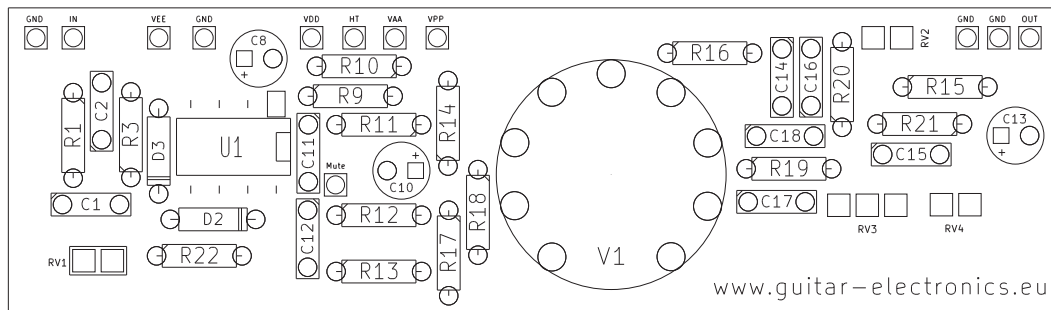
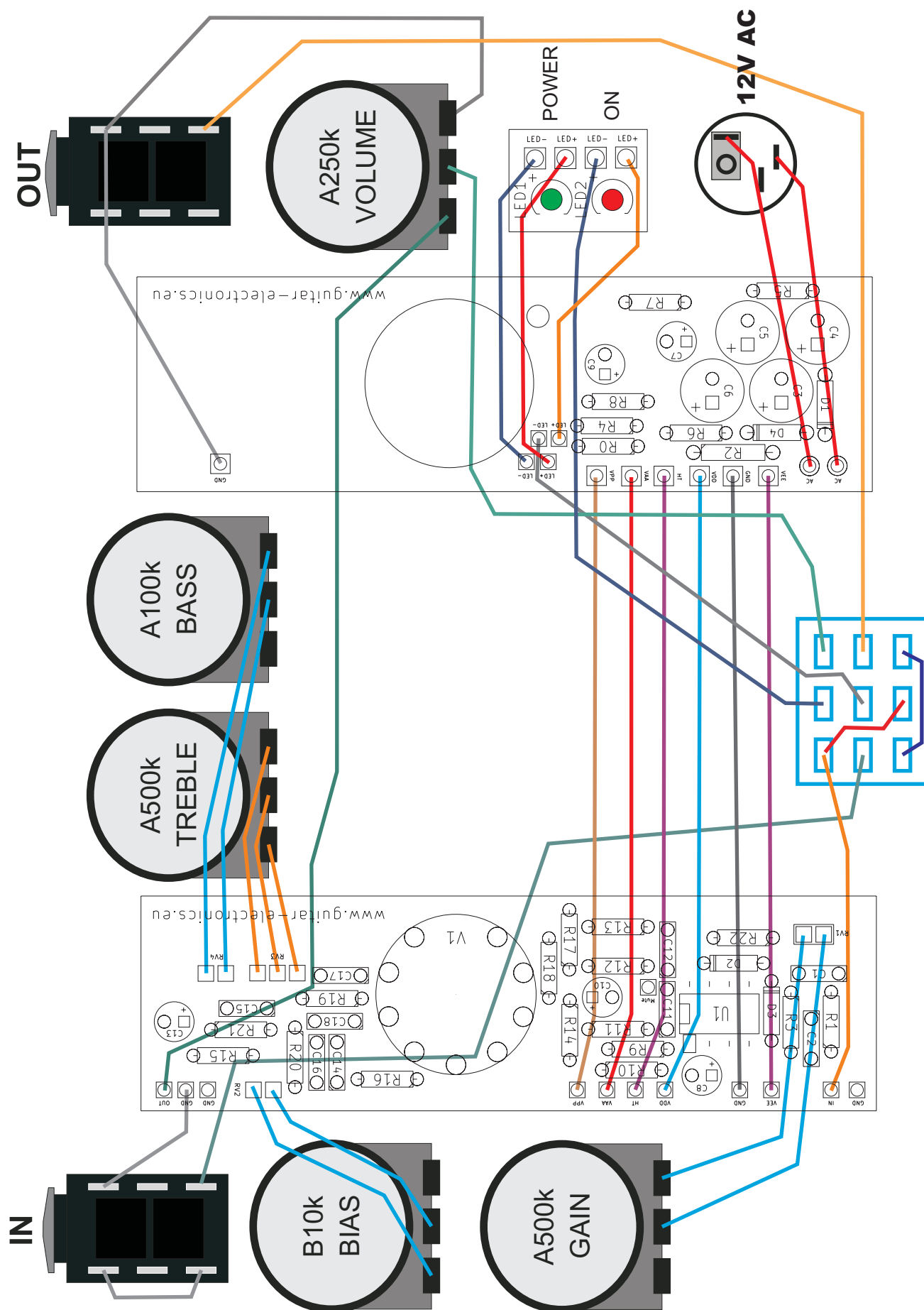


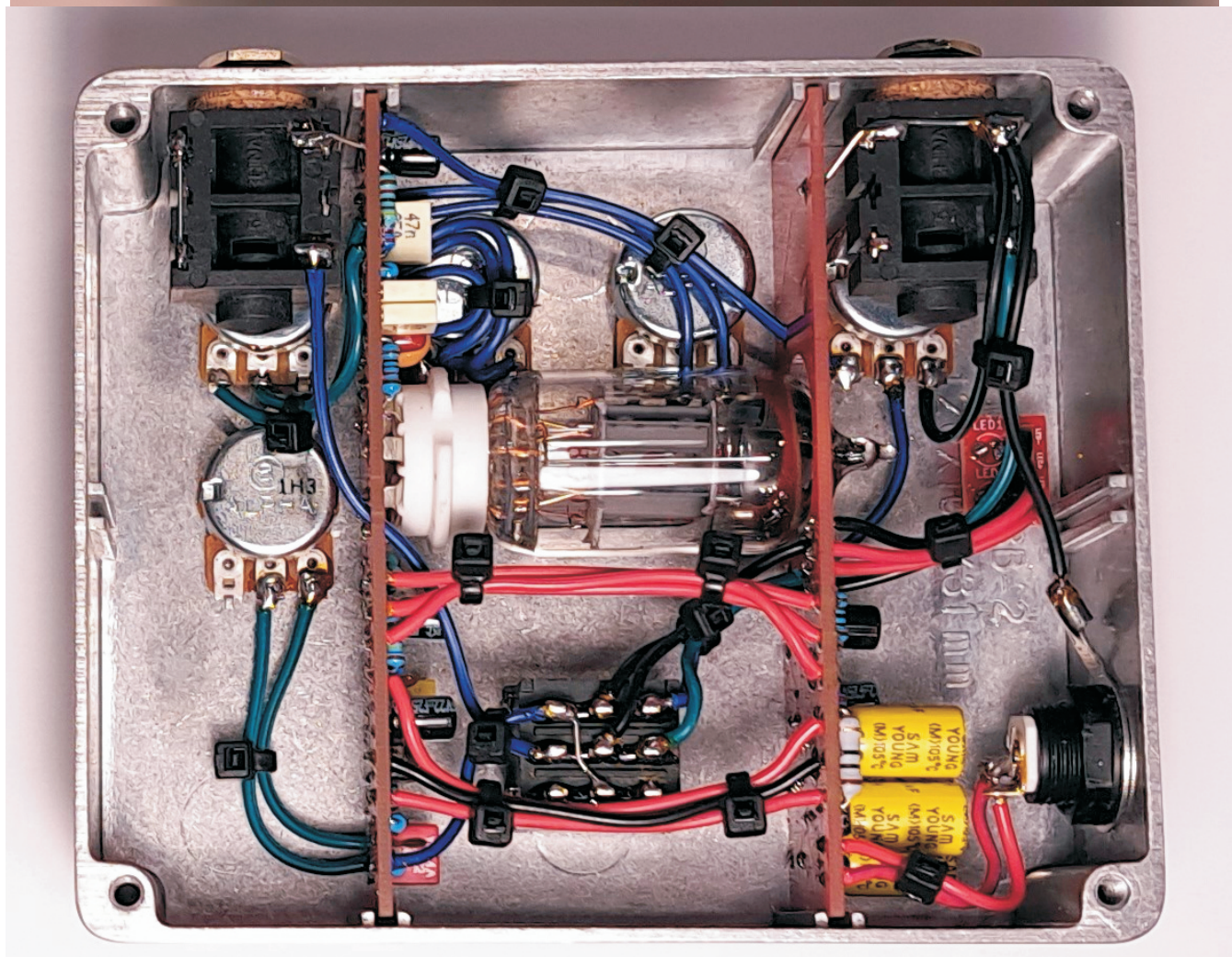
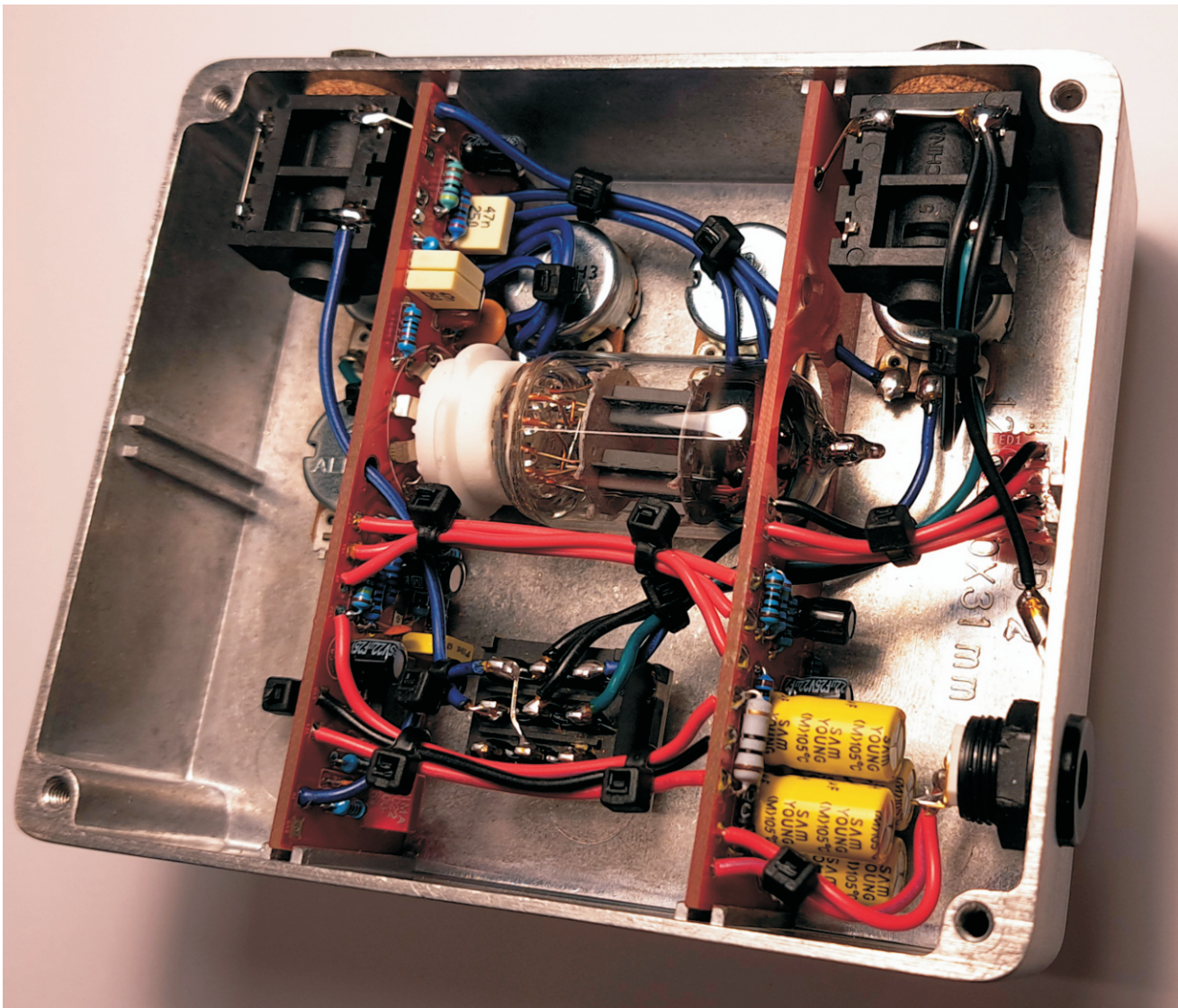
20.09.2024



www.guitar-electronics.eu/en [US/index](http://www.guitar-electronics.eu/en)

Wiring (bottom view) :





Wires marked "X" solder on the copper side of PCB.
Power supply 12V AC 300mA.

Bill of materials:

Resistors:

10R1W 1pcs. "R2"
470R 2pcs. "R0 R6"
680R 3pcs. "R5 R9 R11"
2k2 1pcs. "R4"
4k7 1pcs. "R22"
10k 6pcs. "R1 R7 R8 R12 R13 R16"
22k 3pcs. "R17 R19 R20"
47k 3pcs. "R14 R15 R18"
220k 1pcs. "R21"
1M 2pcs. "R3 R10"

Potentiometers:

A500k 2pcs. "RV1 RV3"
B10k 1pcs. "RV2"
A100k 1pcs. "RV4"
A250k 1pcs. "VOLUME"

Semiconductors:

LED 2pcs.
4148 2pcs. "D2 D3"
1N4007 2pcs. "D1 D4"
TL072 1pcs. "U1"

Valves:

ECC83 1pcs. "V1"

Capacitors:

47p 1pcs. "C2"
120p 1pcs. "C11"
330p 1pcs. "C17"
10n 1pcs. "C12"
22n 1pcs. "C1"
47n 3pcs. "C14 C15 C16"
100n 1pcs. "C18"

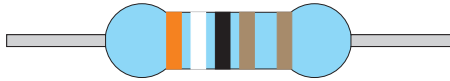
Electrolytic capacitors:

22u 5pcs. "C7 C8 C9 C10 C13"
470u25V 4pcs. "C3 C4 C5 C6"

Other:

NOVAL socket PCB 1pcs.
Knobs 5pcs.
Footswitch 3PDT 1pcs.
Jack socket 2pcs.
DC socket 5.5/2.1 1pcs.

Resistor color code:



$$390 \times 10\Omega = 3,9k\Omega$$

Color	Band 1	Band 2	Band 3	Multiplier	Tolerance
Black	0	0	0	1 Ω	
Brown	1	1	1	10 Ω	1%
Red	2	2	2	100 Ω	2%
Orange	3	3	3	1k Ω	
Yellow	4	4	4	10 k Ω	
Green	5	5	5	100 k Ω	0,5%
Blue	6	6	6	1 M Ω	0,25%
Purple	7	7	7	10 M Ω	0,1%
Gray	8	8	8	100 M Ω	0,05%
White	9	9	9	1 G Ω	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

$$\begin{aligned}
 471 &= 47 \times 10^1 \text{ pF} = 470 \text{ pF} \\
 472 &= 47 \times 10^2 \text{ pF} = 4700 \text{ pF} = 4,7 \text{ nF} \\
 473 &= 47 \times 10^3 \text{ pF} = 47000 \text{ pF} = 47 \text{ nF} \\
 474 &= 47 \times 10^4 \text{ pF} = 470000 \text{ pF} = 470 \text{ nF}
 \end{aligned}$$

$$\begin{aligned}
 100 \text{ pF} &= 100 \text{ p} = 100 = 101 \\
 220 \text{ pF} &= 220 \text{ p} = 220 = 221 \\
 4,7 \text{ nF} &= 4 \text{ n}7 = 0.0047 = 472 \\
 10 \text{ nF} &= 10 \text{ n} = 0.01 = 103 \\
 100 \text{ nF} &= 100 \text{ n} = 0.1 = 104 \\
 220 \text{ nF} &= 220 \text{ n} = 0.22 = 224 \\
 470 \text{ nF} &= 470 \text{ n} = 0.47 = 474 \\
 1000 \text{ nF} &= 1 \mu\text{F} = 1 \mu = 105
 \end{aligned}$$